Appl. No. 09/833,944
Amdt. Dated July 10, 2006
Reply to Office action of April 18, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the above-identified application:

1-9   (canceled).

10.   (currently amended) An apparatus for displaying a plurality of data categories, comprising:

a display that is configured to display a cursor, and to produce a first visual ~~layer~~ representation of data of a first data category of the plurality of data categories and a second visual ~~layer~~ representation of data of a second data category of said plurality of data categories; and

a processor that is configured to receive the data of each of the plurality of data categories and control said display to present said first visual representation of the data of said first data category superimposed over said second visual representation of the data of said second data category whereby the first visual representation masks said second visual representation in a first common region of said first visual representation and said second visual representation, said processor further configured to ~~receive data representative of a~~ determine an occurrence of a predefined event and, upon ~~receipt thereof~~ determining the predefined event has occurred, to superimpose said second visual representation of the data of said second data category over said first visual representation of the data of said first data category whereby the second visual representation masks said first visual representation in said first common region,

wherein the predefined event includes movement of the cursor by a user, a predefined change in the data of one or more of the plurality of displayed data categories, or both.

11.   (currently amended) The apparatus of Claim 10, wherein said display is configured to produce a third visual representation of data of a third data category of the plurality of data categories and said processor is configured to control said display to

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present said first visual representation of ~~the data of~~ said first data category superimposed over said third visual representation of ~~the data of~~ said third data category such that said first visual representation masks said third visual representation in a second common region of said first visual representation and said third visual representation, said processor further configured to and superimpose said third visual representation of ~~the data of~~ said third data category over said first visual representation of ~~the data of~~ said first data category such that the third visual representation masks said first visual representation in said second common region if ~~said predefined event is identified by~~ said processor determines the predefined event has occurred.

12.   (currently amended) The apparatus of Claim 11, wherein said display is configured to produce a fourth visual representation of ~~data of~~ a fourth data category of the plurality of data categories and said processor is configured to control said display to present said first visual representation of ~~the data of~~ said first data category superimposed over said fourth visual representation of ~~the data of~~ said fourth data category such that said first visual representation masks said fourth visual representation in a fourth common region of said first visual representation and said fourth visual representation, said processor further configured to and superimpose said fourth visual representation of ~~the data of~~ said fourth data category over said first visual representation of ~~the data of~~ said first data category such that the fourth visual representation masks said first visual representation in said fourth common region if ~~said a third predefined event is identified by~~ said processor determines the predefined event has occurred.

13.   (currently amended) The apparatus of Claim 10, wherein the data of said plurality of data categories are vehicle data categories.

14.   (currently amended) The apparatus of Claim 10, wherein the data of said plurality of data categories are aircraft data categories.

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15.   (original) The apparatus of Claim 10, wherein said display is a Multi-Function Display (MFD).

16.   (currently amended) The apparatus of Claim 10, wherein <u>the data of</u> said first data category is sensor data.

17.   (currently amended) The apparatus of Claim 10, wherein <u>the data of</u> said second data category is navigation data.

18.   (currently amended) An apparatus for displaying a plurality of data categories, comprising:

a display that is configured to produce a first visual representation of <u>data of</u> a first data category of the plurality of data categories, a second visual representation of <u>data of</u> ~~said~~ <u>a</u> second data category of the plurality of data categories; and

a processor that is configured to control said display during production of said first visual representation of <u>the data of</u> said first data category and said second visual representation of <u>the data of</u> said second data category whereby a first color is provided for said first visual representation of <u>the data of</u> said first data category and a second color is provided for said second visual representation of <u>the data of</u> said second data category,

wherein:

said first color corresponds to a first priority,

said second color corresponds to a second priority,

a first color difference <u>(ΔE)</u> between said first color and a background color of said display is greater than about seventy-five, ~~and~~

a second color difference <u>(ΔE)</u> between said second color and said background color is less than about seventy-five<u>, and</u>

<u>the first and second color difference are each defined by the following equation:</u>

$$\underline{\Delta E\ (Y, u', v') = [(155\ \Delta Y/Y_{max})^2 + (367\ \Delta u')^2 + (167\ \Delta v')^2]^{1/2},}$$

<u>where:</u>

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> ΔY is a difference in luminance between the first color and the background color, and between the second color and the background color,
>
> $\Delta u'$ and $\Delta v'$ are differences in chromaticity (u',v') between the first color and the background color, and between the second color and the background color, and
>
> Y_{max} is maximum luminance of the display.

19.   (original) The apparatus of Claim 18, wherein said first color difference is greater than about ninety (90).

20.   (original) The apparatus of Claim 18, wherein said first color difference is greater than about one hundred (100).

21.   (original) The apparatus of Claim 18, wherein said second color difference is less than about ninety (90).

22.   (original) The apparatus of Claim 18, wherein said second color difference is less than about one hundred (100).

23.   (currently amended) The apparatus of Claim 18, wherein the data of said plurality of data categories are vehicle data categories.

24.   (currently amended) The apparatus of Claim 18, wherein the data of said plurality of data categories are aircraft data categories.

25.   (original) The apparatus of Claim 18, wherein said display is a Multi-Function Display (MFD).

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26.   (currently amended) The apparatus of Claim 18, wherein the data of said first

data category is sensor data.

27.   (currently amended) The apparatus of Claim 18, wherein the data of said second

data category is navigation data.

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